Author Index

Adachi, H., Katayama, T., Nakazato, H. and Tsujimoto, M.
Importance of Glu-125 in the catalytic activity of human renal dipeptidase (1163) 42
Adlercreutz, P.
Activation of enzymes in organic media at low water activity by polyols and saccharides (1163) 144
Ahmad, H., see Singhal, S.S. (1163) 266
Alonso, A.C., Arce, C.A. and Barra, H.S.
Tyrosinatable and non-tyrosinatable tubulin subpopulations in rat muscle in comparison with those in brain (1163) 26
Andrew, C.R., McKillop, K.P. and Sykes, A.G.
Kinetic studies on the reactions of separated a, b and c subunits of *Panulirus interruptus* deoxy-hemocyanin with hydrogen peroxide (1163) 17
Arce, C.A., see Alonso, A.C. (1163) 26
Awasthi, S., see Singhal, S.S. (1163) 266
Awasthi, Y.C., see Singhal, S.S. (1163) 266

Barra, H.S., see Alonso, A.C. (1163) 26
Bieth, J.G., see Padrines, M. (1163) 61
Biram, D., Garratt, C.J. and Hester, R.E.
Ligand affinities in mutant metmyoglobins (1163) 67
Borchman, D., see Lamba, O.P. (1163) 113
Borovikov, Y.S., Nowak, E., Khoroshev, M.I. and Dąbrowska, R.
The effect of Ca^{2+} on the conformation of tropomyosin and actin in regulated actin filaments with or without bound myosin subfragment 1 (1163) 280
Bradshaw, T.P. and Dunlap, R.B.
Characterization of the covalent chromatography of thymidylate synthase on thiopropyl-Sepharose 6B (1163) 165
Buckman, T.D., Sutphin, M.S. and Eckhert, C.D.
A comparison of the effects of dietary selenium on selenoprotein expression in rat brain and liver (1163) 176

Cameron, K.J., see Tuckey, R.C. (1163) 185
Cavallius, J., Zoll, W., Chakraburtty, K. and Merrick, W.C.
Characterization of yeast EF-1α: Non-conservation of post-translational modifications (1163) 75
Chakraburtty, K., see Cavallius, J. (1163) 75
Chang, T.M.S., see Ilan, E. (1163) 257
Chen, S., see Kadohama, N. (1163) 195

Dąbrowska, R., see Borovikov, Y.S. (1163) 280
Daiho, T., see Kubota, T. (1163) 131
Dalton, H., see Jiang, Y. (1163) 105
Dunlap, R.B., see Bradshaw, T.P. (1163) 165

Eckhert, C.D., see Buckman, T.D. (1163) 176

Fishbein, W.N., Sabina, R.L. and Ogasawara, N.
Immunologic evidence for three isoforms of AMP deaminase (AMPD) in mature skeletal muscle (1163) 97
Fujii, N., see Tamamura, H. (1163) 209
Fujiwara, T., see Kitadokoro, K. (1163) 149
Fukushima, K., see Shikata, Y. (1163) 243
Funakoshi, S., see Tamamura, H. (1163) 209

Gafni, A., see Plomer, J.J. (1163) 89
García-Cánovas, F., see Ros, J.R. (1163) 303
Garratt, C.J., see Biram, D. (1163) 67
Gerig, J.T., see Sylvia, L.A. (1163) 321
Gogotov, I.N., see Yakunin, A.F. (1163) 124

Hah, Y.C., see Kang, S.-O. (1163) 158
Hallenbeck, P.C., see Yakunin, A.F. (1163) 124
Han, Y.-H., see Kang, S.-O. (1163) 158
Harnecker, J., see Ocheretina, O. (1163) 10
Hayashi, Y., see Shikata, Y. (1163) 243
He, R.-Q., Zhao, K.-Y., Yan, Z.-Z. and Li, M.
An asynchronous unfolding among molecular different regions of lobster D-glyceraldehyde-3-phosphate dehydrogenase and maltotetraose-forming amylase from an *Alcaligenes Sp.* during guanidine denaturation (1163) 315
Hester, R.E., see Biram, D. (1163) 67
Hirono, S., see Yamaotsu, N. (1163) 81
Horii, T., see Kitadokoro, K. (1163) 149

Ilan, E., Morton, P.G. and Chang, T.M.S.
The anaerobic reaction of bovine hemoglobin with divinyl sulfone: structural changes and functional consequences (1163) 257
Inagaki, F., see Tamamura, H. (1163) 209
Ishiguro, S.-i., see Suzuki, Y. (1163) 201

Jarrett, H.W., see Persechini, A. (1163) 309
Jiang, Y., Wilkins, P.C. and Dalton, H.
Activation of the hydroxylase of sMMO from *Methylococcus capsulatus* (Bath) by hydrogen peroxide (1163) 105

Kaczmarek, E., see Margossian, S.S. (1163) 250
Kadohama, N., Zhou, D., Chen, S. and Osawa, Y.
Catalytic efficiency of expressed aromatase following site-directed mutagenesis (1163) 195
Kanazawa, T., see Kubota, T. (1163) 131
Kanda, T. and Saigo, K.
Chimeric reverse transcriptase of Moloney murine leukaemia virus, having the YXDD box of a *Drosophila* retrotransposon, *17.6* (1163) 223
Kang, S.-O., Shin, K.-S., Han, Y.-H., Youn, H.-D. and Hah, Y.C.
Purification and characterisation of an extracellular peroxidase from white-rot fungus *Pleurotus ostreatus* (1163) 158
Katayama, T., see Adachi, H. (1163) 42
Keida, Y., see Satoh, S. (1163) 234
Kendrick, K.E., see White, P.J. (1163) 273
Khoroshev, M.I., see Borovikov, Y.S. (1163) 280
Kirkland, J.B., see Thibodeau, J. (1163) 49
Kitadokoro, K., Nakamura, E., Tamaki, M., Horii, T., Okamoto, H., Shin, M., Sato, T., Fujiwara, T., Tsuzuki, H., Yoshida, N. and Teraoka, H.
Purification, characterization and molecular cloning of an acidic amino acid-specific proteinase from *Streptomyces fradiae* ATCC 14544 (1163) 149
Kohda, D., see Tamamura, H. (1163) 209
Kohsaka, M., see Satoh, S. (1163) 234

Author Index

Adachi, H., Katayama, T., Nakazato, H. and Tsujimoto, M.
Importance of Glu-125 in the catalytic activity of human renal dipeptidase (1163) 42
Adlercreutz, P.
Activation of enzymes in organic media at low water activity by polyols and saccharides (1163) 144
Ahmad, H., see Singhal, S.S. (1163) 266
Alonso, A.C., Arce, C.A. and Barra, H.S.
Tyrosinatable and non-tyrosinatable tubulin subpopulations in rat muscle in comparison with those in brain (1163) 26
Andrew, C.R., McKillop, K.P. and Sykes, A.G.
Kinetic studies on the reactions of separated a, b and c subunits of *Panulirus interruptus* deoxy-hemocyanin with hydrogen peroxide (1163) 17
Arce, C.A., see Alonso, A.C. (1163) 26
Awasthi, S., see Singhal, S.S. (1163) 266
Awasthi, Y.C., see Singhal, S.S. (1163) 266

Barra, H.S., see Alonso, A.C. (1163) 26
Bieth, J.G., see Padrines, M. (1163) 61
Biram, D., Garratt, C.J. and Hester, R.E.
Ligand affinities in mutant metmyoglobins (1163) 67
Borchman, D., see Lamba, O.P. (1163) 113
Borovikov, Y.S., Nowak, E., Khoroshev, M.I. and Dąbrowska, R.
The effect of Ca^{2+} on the conformation of tropomyosin and actin in regulated actin filaments with or without bound myosin subfragment 1 (1163) 280
Bradshaw, T.P. and Dunlap, R.B.
Characterization of the covalent chromatography of thymidylate synthase on thiopropyl-Sepharose 6B (1163) 165
Buckman, T.D., Sutphin, M.S. and Eckhert, C.D.
A comparison of the effects of dietary selenium on selenoprotein expression in rat brain and liver (1163) 176

Cameron, K.J., see Tuckey, R.C. (1163) 185
Cavallius, J., Zoll, W., Chakraburtty, K. and Merrick, W.C.
Characterization of yeast EF-1α: Non-conservation of post-translational modifications (1163) 75
Chakraburtty, K., see Cavallius, J. (1163) 75
Chang, T.M.S., see Ilan, E. (1163) 257
Chen, S., see Kadohama, N. (1163) 195

Dąbrowska, R., see Borovikov, Y.S. (1163) 280
Daiho, T., see Kubota, T. (1163) 131
Dalton, H., see Jiang, Y. (1163) 105
Dunlap, R.B., see Bradshaw, T.P. (1163) 165

Eckhert, C.D., see Buckman, T.D. (1163) 176

Fishbein, W.N., Sabina, R.L. and Ogasawara, N.
Immunologic evidence for three isoforms of AMP deaminase (AMPD) in mature skeletal muscle (1163) 97
Fujii, N., see Tamamura, H. (1163) 209
Fujiwara, T., see Kitadokoro, K. (1163) 149
Fukushima, K., see Shikata, Y. (1163) 243
Funakoshi, S., see Tamamura, H. (1163) 209

Gafni, A., see Plomer, J.J. (1163) 89
García-Cánovas, F., see Ros, J.R. (1163) 303
Garratt, C.J., see Biram, D. (1163) 67
Gerig, J.T., see Sylvia, L.A. (1163) 321
Gogotov, I.N., see Yakunin, A.F. (1163) 124

Hah, Y.C., see Kang, S.-O. (1163) 158
Hallenbeck, P.C., see Yakunin, A.F. (1163) 124
Han, Y.-H., see Kang, S.-O. (1163) 158
Harnecker, J., see Ocheretina, O. (1163) 10
Hayashi, Y., see Shikata, Y. (1163) 243
He, R.-Q., Zhao, K.-Y., Yan, Z.-Z. and Li, M.
An asynchronous unfolding among molecular different regions of lobster D-glyceraldehyde-3-phosphate dehydrogenase and maltotetraose-forming amylase from an *Alcaligenes Sp.* during guanidine denaturation (1163) 315
Hester, R.E., see Biram, D. (1163) 67
Hirono, S., see Yamaotsu, N. (1163) 81
Horii, T., see Kitadokoro, K. (1163) 149

Ilan, E., Morton, P.G. and Chang, T.M.S.
The anaerobic reaction of bovine hemoglobin with divinyl sulfone: structural changes and functional consequences (1163) 257
Inagaki, F., see Tamamura, H. (1163) 209
Ishiguro, S.-i., see Suzuki, Y. (1163) 201

Jarrett, H.W., see Persechini, A. (1163) 309
Jiang, Y., Wilkins, P.C. and Dalton, H.
Activation of the hydroxylase of sMMO from *Methylococcus capsulatus* (Bath) by hydrogen peroxide (1163) 105

Kaczmarek, E., see Margossian, S.S. (1163) 250
Kadohama, N., Zhou, D., Chen, S. and Osawa, Y.
Catalytic efficiency of expressed aromatase following site-directed mutagenesis (1163) 195
Kanazawa, T., see Kubota, T. (1163) 131
Kanda, T. and Saigo, K.
Chimeric reverse transcriptase of Moloney murine leukaemia virus, having the YXDD box of a *Drosophila* retrotransposon, *17.6* (1163) 223
Kang, S.-O., Shin, K.-S., Han, Y.-H., Youn, H.-D. and Hah, Y.C.
Purification and characterisation of an extracellular peroxidase from white-rot fungus *Pleurotus ostreatus* (1163) 158
Katayama, T., see Adachi, H. (1163) 42
Keida, Y., see Satoh, S. (1163) 234
Kendrick, K.E., see White, P.J. (1163) 273
Khoroshev, M.I., see Borovikov, Y.S. (1163) 280
Kirkland, J.B., see Thibodeau, J. (1163) 49
Kitadokoro, K., Nakamura, E., Tamaki, M., Horii, T., Okamoto, H., Shin, M., Sato, T., Fujiwara, T., Tsuzuki, H., Yoshida, N. and Teraoka, H.
Purification, characterization and molecular cloning of an acidic amino acid-specific proteinase from *Streptomyces fradiae* ATCC 14544 (1163) 149
Kohda, D., see Tamamura, H. (1163) 209
Kohsaka, M., see Satoh, S. (1163) 234

Koller, M. and Strehler, E.E.
Functional analysis of the promoters of the human *CaMIII* calmodulin gene and of the intronless gene coding for a calmodulin-like protein (1163) 1
Kollman, P.A., see Yamaotsu, N. (1163) 81
Konta, Y., see Satoh, S. (1163) 234
Kosk-Kosicka, D., see Persechini, A. (1163) 309
Krinks, M.H., see Persechini, A. (1163) 309
Kubota, T., Daiho, T. and Kanazawa, T.
Quasi-irreversible inactivation of the sarcoplasmic reticulum Ca^{2+}-ATPase by simultaneous tight binding of magnesium and fluoride to the catalytic site (1163) 131
Kuroda, M., see Tamamura, H. (1163) 209

Lamba, O.P., Borchman, D., Sinha, S.K., Shah, J., Renugopalakrishnan, V. and Yappert, M.C.
Estimation of the secondary structure and conformation of bovine lens crystallins by infrared spectroscopy: quantitative analysis and resolution by Fourier self-deconvolution and curve fit (1163) 113
Lancelin, J.M., see Tamamura, H. (1163) 209
Lee, H.G., see Persechini, A. (1163) 309
Li, M., see He, R.-Q. (1163) 315

Maeda, M., see Satoh, S. (1163) 234
Mangold, J.B., McCann, D.J. and Spina, A.
Aryl sulfotransferase-IV-catalyzed sulfation of aryl oximes: steric and substituent effects (1163) 217
Margossian, S.S., Slayter, H.S., Kaczmarek, E. and McDonagh, J.
Physical characterization of recombinant tissue plasminogen activator (1163) 250
Masuda, M., see Tamamura, H. (1163) 209
Matsumoto, A., see Tamamura, H. (1163) 209
Matsumoto, Y., see Satoh, S. (1163) 234
McCann, D.J., see Mangold, J.B. (1163) 217
McDonagh, J., see Margossian, S.S. (1163) 250
McKillop, K.P., see Andrew, C.R. (1163) 17
Merrick, W.C., see Cavallius, J. (1163) 75
Miller, R.W., Yu, Z. and Zarkadas, C.G.
The nitrogenase proteins of *Rhizobium meliloti*: purification and properties of the MoFe and Fe components (1163) 31
Moriguchi, I., see Yamaotsu, N. (1163) 81
Morton, P.G., see Ilan, E. (1163) 257
Mukhtar, H., see Singhal, S.S. (1163) 266

Nakamura, E., see Kitadokoro, K. (1163) 149
Nakashima, H., see Tamamura, H. (1163) 209
Nakazato, H., see Adachi, H. (1163) 42
Nelson-Rossow, K.L., Sukalski, K.A. and Nordlie, R.C.
Hysteresis at near-physiologic substrate concentrations underlies apparent sigmoid kinetics of the glucose-6-phosphatase system (1163) 297
Niwa, M., see Satoh, S. (1163) 234
Nordlie, R.C., see Nelson-Rossow, K.L. (1163) 297
Nowak, E., see Borovikov, Y.S. (1163) 280

Ocheretina, O., Harnecker, J., Rother, T., Schmid, R. and Scheibe, R.
Effects of N-terminal truncations upon chloroplast NADP-malate dehydrogenases from pea and spinach (1163) 10
Ogasawara, N., see Fishbein, W.N. (1163) 97
Ohya, Y., see Shikata, Y. (1163) 243
Okamoto, H., see Kitadokoro, K. (1163) 149
Osawa, Y., see Kadohama, N. (1163) 195
Otaka, A., see Tamamura, H. (1163) 209

Padrines, M. and Bieth, J.G.
Oxidized and $Met^{358} \rightarrow Leu$ mutated α_1-proteinase inhibitor as substrates of *Pseudomonas aeruginosa* elastase (1163) 61
Persechini, A., Jarrett, H.W., Kosk-Kosicka, D., Krinks, M.H. and Lee, H.G.
Activation of enzymes by calmodulins containing intramolecular cross-links (1163) 309
Plomer, J.J. and Gafni, A.
Renaturation of glucose-6-phosphate dehydrogenase from *Leuconostoc mesenteroides* after denaturation in 4 M guanidine hydrochloride: kinetics of aggregation and reactivation (1163) 89
Pócsi, I., Taylor, S.A., Richardson, A.C., Smith, B.V. and Price, R.G.
Comparison of several new chromogenic galactosides as substrates for various β-D-galactosidases (1163) 54
Poirier, G., see Thibodeau, J. (1163) 49
Potvin, F., see Thibodeau, J. (1163) 49
Price, R.G., see Pócsi, I. (1163) 54

Renugopalakrishnan, V., see Lamba, O.P. (1163) 113
Richardson, A.C., see Pócsi, I. (1163) 54
Rodríguez-López, J.N., see Ros, J.R. (1163) 303
Ros, J.R., Rodríguez-López, J.N. and García-Cánovas, F.
Effect of ferrous ions on the monophenolase activity of tyrosinase (1163) 303
Rother, T., see Ocheretina, O. (1163) 10

Sabina, R.L., see Fishbein, W.N. (1163) 97
Saigo, K., see Kanda, T. (1163) 223
Sato, T., see Kitadokoro, K. (1163) 149
Satoh, S., Keida, Y., Konta, Y., Maeda, M., Matsumoto, Y., Niwa, M. and Kohsaka, M.
Purification and molecular cloning of mouse renal dipeptidase (1163) 234
Saxena, M., see Singhal, S.S. (1163) 266
Scheibe, R., see Ocheretina, O. (1163) 10
Schmid, R., see Ocheretina, O. (1163) 10
Seto, T., see Shikata, Y. (1163) 243
Shah, J., see Lamba, O.P. (1163) 113
Shikata, Y., Hayashi, Y., Yoshimatsu, K., Ohya, Y., Seto, T., Fukushima, K. and Yoshida, Y.
Pro-major basic protein has three types of sugar chains at the pro-portion (1163) 243
Shin, K.-S., see Kang, S.-O. (1163) 158
Shin, M., see Kitadokoro, K. (1163) 149
Singhal, S.S., Saxena, M., Awasthi, S., Mukhtar, H., Zaidi, S.I.A., Ahmad, H. and Awasthi, Y.C.
Glutathione *S*-transferases of human skin: qualitative and quantitative differences in men and women (1163) 266
Sinha, S.K., see Lamba, O.P. (1163) 113
Slayter, H.S., see Margossian, S.S. (1163) 250
Smith, B.V., see Pócsi, I. (1163) 54
Spina, A., see Mangold, J.B. (1163) 217
Strehler, E.E., see Koller, M. (1163) 1
Sukalski, K.A., see Nelson-Rossow, K.L. (1163) 297
Sutphin, M.S., see Buckman, T.D. (1163) 176
Suzuki, T., see Yamamoto, Y. (1163) 287
Suzuki, Y., Ishiguro, S.-i. and Tamai, M.
Identification and immunohistochemistry of retinol dehydrogenase from bovine retinal pigment epithelium (1163) 201
Sykes, A.G., see Andrew, C.R. (1163) 17
Sylvia, L.A. and Gerig, J.T.
NMR studies of the α-chymotrypsin-(*R*)-1-acetamido-2-(4-fluorophenyl)ethane-1-boronic acid complex (1163) 321

Tamai, M., see Suzuki, Y. (1163) 201
Tamaki, M., see Kitadokoro, K. (1163) 149
Tamamura, H., Kuroda, M., Masuda, M., Otaka, A., Funakoshi, S., Nakashima, H., Yamamoto, N., Waki, M., Matsumoto, A., Lancelin, J.M., Kohda, D., Tate, S., Inagaki, F. and Fujii, N.
A comparative study of the solution structures of tachyplesin I

and a novel anti-HIV synthetic peptide, T22 ([Tyr^{5,12}, Lys^{7}]-polyphemusin II), determined by nuclear magnetic resonance (1163) 209
Tate, S., see Tamamura, H. (1163) 209
Taylor, S.A., see Pócsi, I. (1163) 54
Teraoka, H., see Kitadokoro, K. (1163) 149
Thibodeau, J., Potvin, F., Kirkland, J.B. and Poirier, G.
Expression in *Escherichia coli* of the 36 kDa domain of poly(ADP-ribose) polymerase and investigation of its DNA binding properties (1163) 49
Troshina, O.Y., see Yakunin, A.F. (1163) 124
Tsujimoto, M., see Adachi, H. (1163) 42
Tsuzuki, H., see Kitadokoro, K. (1163) 149
Tuckey, R.C. and Cameron, K.J.
Catalytic properties of cytochrome P-450$_{scc}$ purified from the human placenta: comparison to bovine cytochrome P-450$_{scc}$ (1163) 185

Waki, M., see Tamamura, H. (1163) 209
White, P.J. and Kendrick, K.E.
Inactivation of histidine ammonia-lyase from *Streptomyces griseus* by dicarbonyl reagents (1163) 273
Wilkins, P.C., see Jiang, Y. (1163) 105

Yakunin, A.F., Hallenbeck, P.C., Troshina, O.Y. and Gogotov, I.N.
Purification and properties of a bacterial-type ferredoxin from the nitrogen-fixing cyanobacterium *Anabaena variabilis* ATCC29413 (1163) 124
Yamamoto, K.T.
Photoreversible change in the conformation of phytochrome as probed with a covalently bound fluorescent sulfhydryl reagent, *N*-(9-acridinyl)maleimide (1163) 227
Yamamoto, N., see Tamamura, H. (1163) 209
Yamamoto, Y. and Suzuki, T.
NMR study of the molecular and electronic structure of the heme cavity in *Dolabella* met-cyano myoglobin (1163) 287
Yamaotsu, N., Moriguchi, I., Kollman, P.A. and Hirono, S.
Molecular dynamics study of the stability of staphylococcal nuclease mutants: component analysis of the free energy difference of denaturation (1163) 81
Yan, Z.-Z., see He, R.-Q. (1163) 315
Yappert, M.C., see Lamba, O.P. (1163) 113
Yoshida, N., see Kitadokoro, K. (1163) 149
Yoshida, Y., see Shikata, Y. (1163) 243
Yoshimatsu, K., see Shikata, Y. (1163) 243
Youn, H.-D., see Kang, S.-O. (1163) 158
Yu, Z., see Miller, R.W. (1163) 31

Zaidi, S.I.A., see Singhal, S.S. (1163) 266
Zarkadas, C.G., see Miller, R.W. (1163) 31
Zhao, K.-Y., see He, R.-Q. (1163) 315
Zhou, D., see Kadohama, N. (1163) 195
Zoll, W., see Cavallius, J. (1163) 75